#### **Milestones**

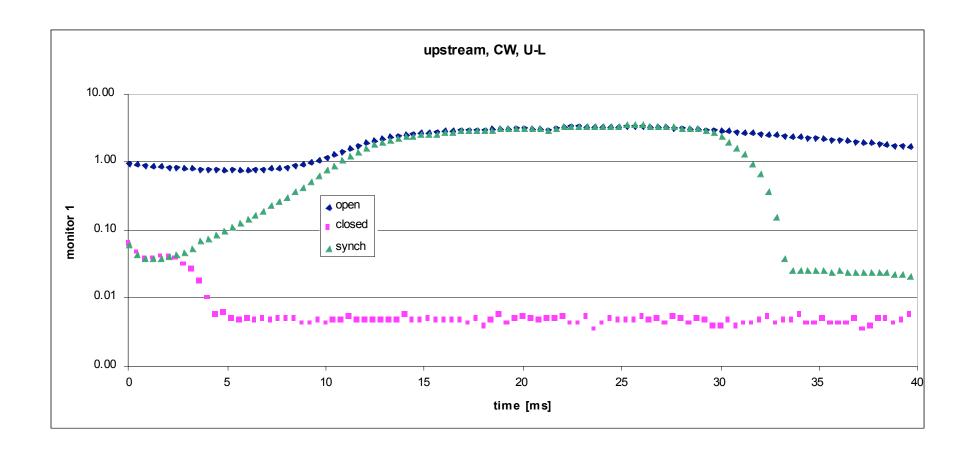
• April 2002 Delivered to LANL

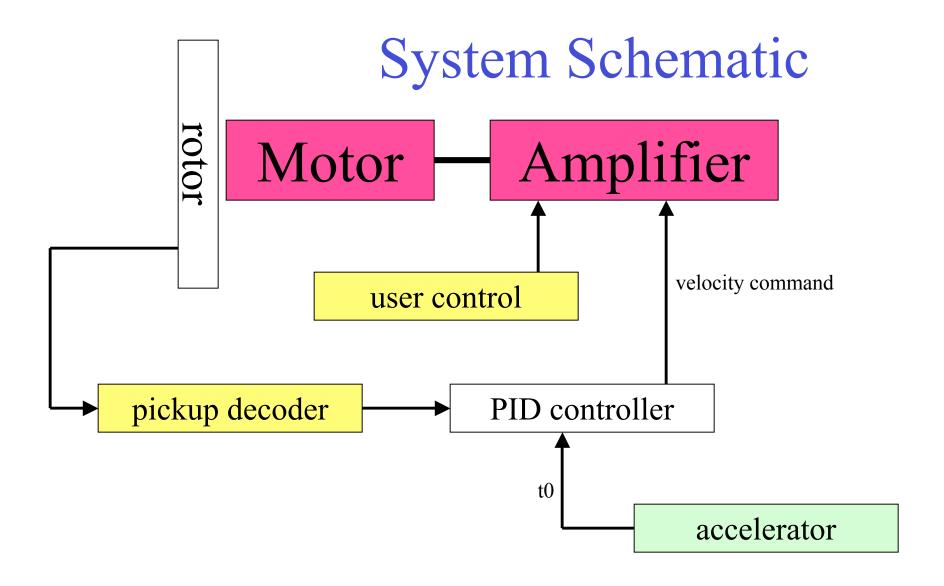
• February 2003 Installation in FP12

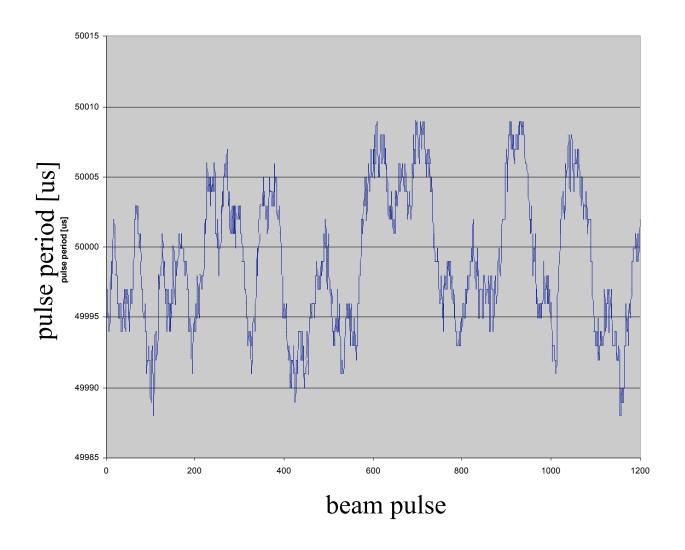
• February 2004 Powered, tested

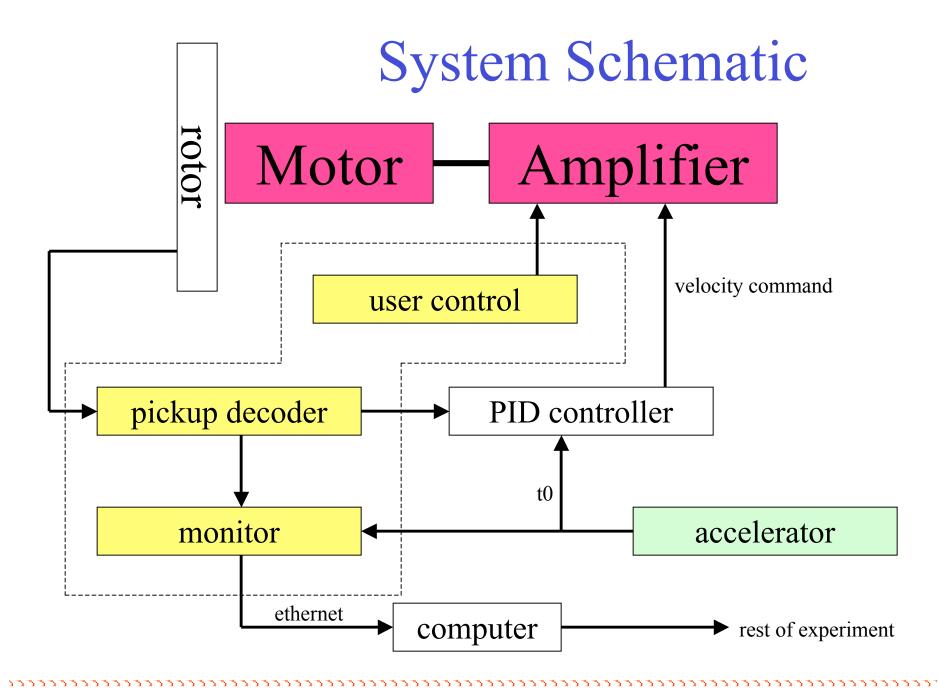
• Spring 2004 Operation during commissioning run

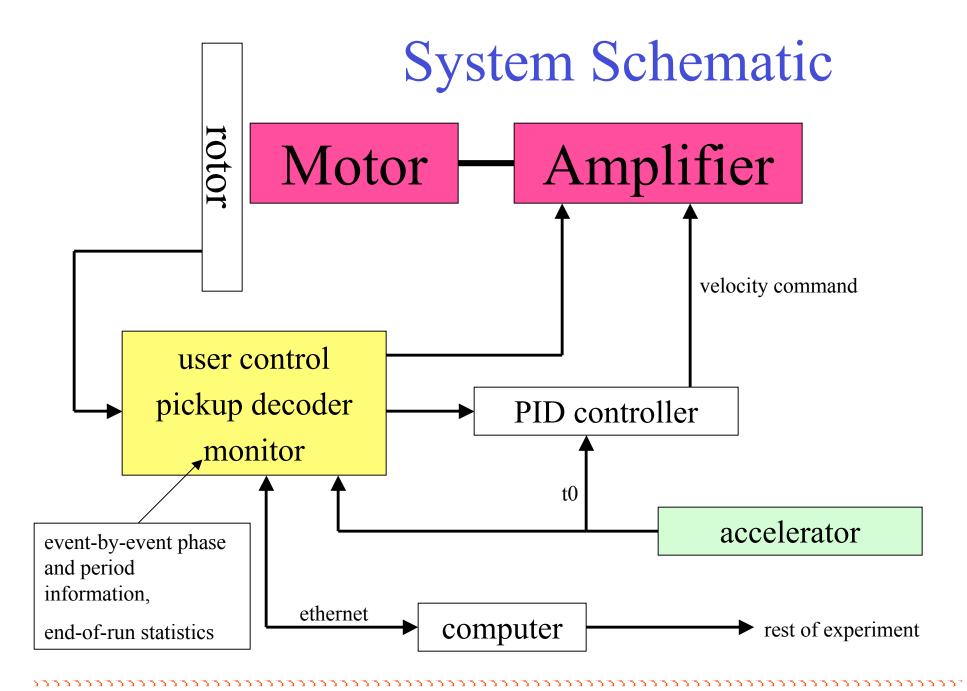




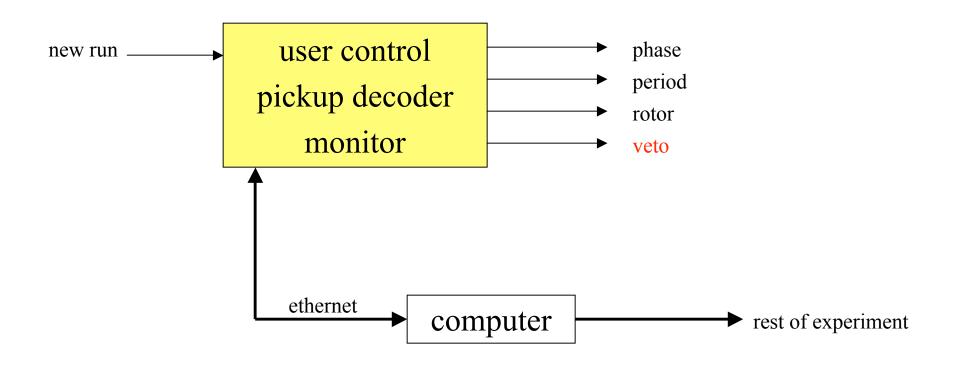








## signal interface detail



Criterion for chopper project completion:

Less than 1% veto rate

veto defined as phase error > 50 us

### **Timetable for Phase II FP12 Chopper Electronics (WBS 2.3)**

Oct 6-8	Doe Review	
	Final assessment of new chopper electronics requirements	
October 20	Electronics design complete	
	New circuit boards ordered	
November	Electronics assembly	
December	Final programming & testing at IUCF	
Jan 13	Delivery of new electronics to LANL	
Jan 14-27	Testing at LANL	
	Integration of monitoring & diagnostics into NPDGamma data acquisition	
January 28	New electronics system complete	
	Chopper ready for production running	

<b>Table 2</b> : Rotor 1 parameters (aperture = 109.28 deg)			
<u>parameter</u>	<u>unit</u>	<u>value</u>	
mass of counterweight	kg	1.377	
mass of rotor	kg	6.160	
mass of Gd <sub>2</sub> O <sub>3</sub> plating		0.453	
total moment of inertia	kg kg-m^2	1.013	